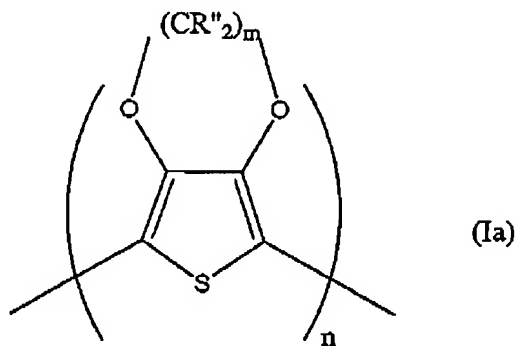


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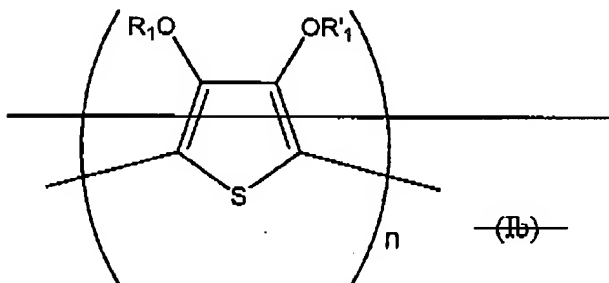
Listing of Claims

1. (Currently Amended) An electrically conductive composition comprising an aqueous dispersion capable of forming a film of at least one polythiophene and at least one colloid-forming fluorinated polymeric sulfonic acid, wherein said polythiophene ~~has~~comprises the Formula I(a) or Formula I(b):



wherein:

R'' is the same or different at each occurrence and is selected from the group consisting of hydrogen, alkyl, heteroalkyl, alkenyl, heteroalkenyl, alcohol, amidosulfonate, benzyl, carboxylate, ether, ether carboxylate, ether sulfonate, sulfonate, and urethane, with the proviso that at least one R'' is not hydrogen,
m is 2 or 3, and
n is at least about 4; ~~or~~



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wherein:

~~R_1^2 and R_1 are independently selected from the group consisting of hydrogen and alkyl, or~~

~~R_1^2 and R_1 taken together form an alkylene chain having 1 to 4 carbon atoms, which may optionally be substituted by alkyl or aromatic groups having 1 to 12 carbon atoms, or a 1,2-cyclohexylene radical, and n is at least about 4.~~

2. (Previously Presented) A composition according to Claim 1, wherein at least about 50% of the total number of halogen and hydrogen atoms in said fluorinated polymeric acid are fluorine atoms.

3. (Canceled)

4. (Previously Presented) A composition according to Claim 1, wherein said fluorinated polymeric sulfonic acid is perfluorinated.

5. (Previously Presented) A composition according to Claim 1, further comprising at least one additional material selected from polymers, conductive polymers, colloid-forming polymeric acids, dyes, carbon nanotubes, metal nanowires, metal nanoparticles, carbon nanoparticles, carbon fibers, carbon particles, graphite fibers, graphite particles, coating aids, organic conductive inks, organic conductive pastes, inorganic conductive inks, inorganic conductive pastes, charge transport materials, semiconductive inorganic oxide nano-particles, insulating inorganic oxide nano-particles, piezoelectric nano-particles, pyroelectric nano-particles, ferroelectric oxide nano-particles, piezoelectric polymers, pyroelectric polymers, ferroelectric oxide polymers, photoconductive oxide nanoparticles, photoconductive oxide polymers, dispersing agents, crosslinking agents, and combinations thereof.

6. (Original) A composition according to Claim 1, further comprising at least one co-dispersing liquid.

7. (Previously Presented) A composition according to Claim 6, wherein the co-dispersing liquid is selected from the group consisting of ethers, cyclic ethers, alcohols,

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alcohol ethers, ketones, nitriles, sulfides, sulfoxides, amides, amines, carboxylic acids, and combinations thereof.

8. (Previously Presented) A composition according to Claim 6, wherein the co-dispersing liquid is at least one liquid selected from the group consisting of n-propanol, isopropanol, methanol, butanol, 1-methoxy-2-propanol, dimethylacetamide, n-methyl pyrrolole, 1,4-dioxane, tetrahydrofuran, tetrahydropyran, 4 methyl-1,3-dioxane, 4-phenyl-1,3-dioxane, 1,3-dioxolane, 2-methyl-1,3-dioxolane, 1,3-dioxane, 2,5-dimethoxytetrahydrofuran, 2,5-dimethoxy-2,5-dihydrofuran, 1-methylpyrrolidine, 1-methyl-2-pyrrolidinone, dimethylsulfoxide, and combinations thereof.

9. (Canceled)

11. (Canceled)

12. (Canceled)

13. (Canceled)

14. (Canceled)

15. (Canceled)

16. (Canceled)

17. (Canceled)

18. (Canceled)

19. (Canceled)

20. (Canceled)

21. (Canceled)

22. (Canceled)

23. (Canceled)

24. (Canceled)

25. (Canceled)

26. (Canceled)

27. (Canceled)

28. (Canceled)

29. (New) A composition according to Claim 2, wherein said fluorinated polymeric sulfonic acid is perfluorinated.

30. (New) A composition according to Claim 1, also comprising sulfonic acid salt groups.

~~3231~~. (Currently Amended) A composition according to Claim 2, also comprising sulfonic acid salt groups.

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3332. (Currently Amended) A composition according to Claim 4, also comprising sulfonic acid salt groups.

3433. (Currently Amended) A composition according to Claim 1, wherein the sulfonic acid has a functional group represented by the formula,



wherein X ~~may be~~ is selected from the group consisting of H, Li, Na, K, ~~$-\text{CH}_3$, $-\text{CH}_2\text{CH}_3$,~~
and $\text{N}(\text{R}_1)(\text{R}_2)(\text{R}_3)(\text{R}_4)$ where R_1 , R_2 , R_3 , and R_4 are the same or different and ~~may be~~ is
selected from the group consisting of H, $-\text{CH}_3$, or $-\text{CH}_2\text{CH}_3$, and a metal, represented by
the formula M^{n+} where the number of functional groups is equal to the valence value of n.